

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000458

A. CLASSIFICATION OF SUBJECT MATTER  
IPC(7): G01N 1/28, C12M 1/34, C12Q 1/68, G01N 37/00, B01L 11/00, G01N 21/05

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01N 1/28, C12M 1/34, C12Q 1/68, G01N 37/00, B01L 11/00, G01N 21/05 and keywords

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

USPTO WEST, Questel Orbit/PLUSPAT - keywords: microfluidic, centrifuge, centrifugal, microscope, slide

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.  |
|-----------|--|--|
| X         | WO 01/35088A1 - Wang et al (New Mexico State University Technology Transfer Corporation) 17 May, 2001 (2001/05/17)<br>Abstract<br>page 3, lines 15 - 30<br>page 4, lines 5 - 7, 25 - 28  | 1 - 30, 33 - 35, 37 - 38, 40, 44, 49 - 50, 60<br>- 74, 76 - 77, 82 - 83, 88 - 89, 93 - 95, 99<br>- 100, 102, 111 - 119, 123, 126, 128 -<br>133, 137 & 140                                      |
| Y         | page 5, lines 11 - 15<br>page 10, last paragraph<br>page 13, line 9<br>page 14, lines 8 - 20<br>page 16, lines 4 - 24<br>page 19, second paragraph<br>page 20, line 7 - page 24, line 10<br>figures 1 - 4, 34, 35  | 36, 75 and 101<br>59, 92<br>103 - 110<br>138 - 139<br>141 - 143  |
| X         | WO 03/015923A1 - Adey et al (BioMicro Systems Inc.) 27 Feb., 2003<br>(2003/02/27)<br>Abstract<br>page 1, last paragraph<br>page 3, line 14 - page 4, line 6<br>page 5, line 9 - page 6, line 25<br>page 7, line 23 - page 8, line 29<br>page 9, lines 9 - 21 | 1 - 8, 10 - 16, 18 - 20, 23 - 24, 29 - 30, 34,<br>37, 39 - 44, 47 - 50, 52, 60 - 67, 70 - 73,<br>76, 78 - 83, 86 - 89, 91, 93 - 99, 111,<br>113, 119 - 123, 125 - 127, 129 - 130,<br>136 & 137 |

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search

22 June 2005 (22-06-2005)

Date of mailing of the international search report

12 July 2005 (12-07-2005)

Name and mailing address of the ISA/CA  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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| Y         | page 11, lines 1 - 5<br>page 14, line 25 - page 15, line 22<br>Accompanying figures  | 53 - 58<br>59, 92             |
| Y         | US2002/0142470A1 - Clarke et al, 3 Oct., 2002 (2002/10/03)<br>Abstract<br>page 2, paragraph 0011 - page 5, paragraph 26<br>figures   | 103 - 108<br>138 - 139<br>141 |
| Y         | US6099803 - Ackley et al, (Nanogen Inc.) 8 Aug., 2000 (2000/08/08)<br>Abstract<br>col. 9, lines 50 - col. 10, line 27<br>col. 11, line 39 - col. 12, line 10   | 45 - 46, 84 - 85              |
| Y         | Publications:<br>"A novel design on a CD disk for 2 point calibration measurement", Madou et al, Sensors and Actuators A, vol. 91(3), 2001, pages 301 - 306.<br>Abstract<br>page 301, second and fourth paragraphs<br>figures 1 & 6                                  | 109 - 110<br>142 - 43         |
| Y         | "Electrokinetically controlled microfluidic analysis systems", Bousse et al, Annual review of biopsies and biomolecular structure, vol. 29, 2000, pages 155 - 181.<br>page 161, last paragraph before "Silicon Devices"<br>page 169, last paragraph<br>figures 5 & 9 | 36, 75 and 101                |
| A         | "Fabrication of topologically complex three dimensional microfluidic systems in PDMS by rapid prototyping", Anderson et al, Analytical Chemistry, vol. 72, No. 14, July 15, 2000, pages 3158 - 3164).  | all                           |

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Information on patent family members

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